

# Lake Decatur Basins 1 through 4 Dredging Project Fact Sheet



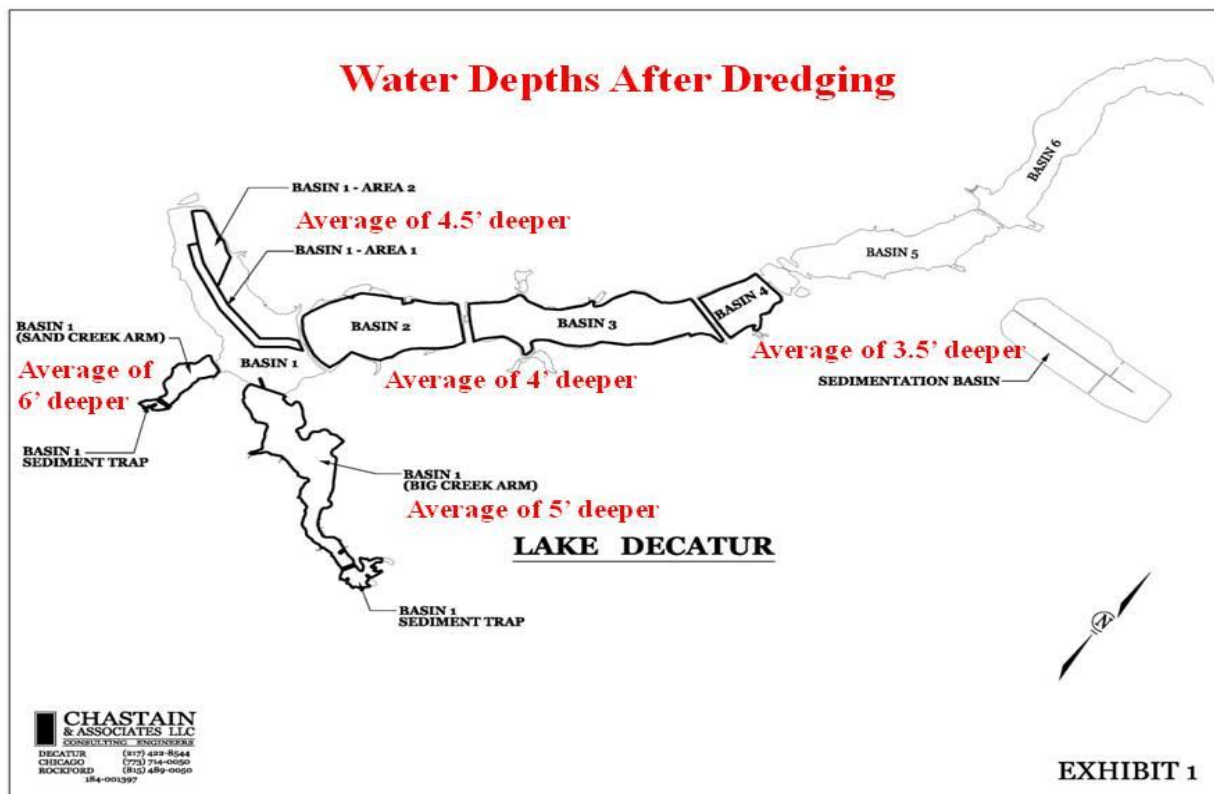
## Background

Lake Decatur was constructed on the Sangamon River as a public water supply reservoir in 1920-1923. Since then natural and human caused erosion severely reduced the lake's storage capacity. The lake is separated by bridges into six large basins. Basin 5 was reclaimed by dredging in 1993-1994 and Basin 6 in 2004-2011. The dredging of Basins 1 through 4 began in 2014 and will continue through 2019.

## Project Details

Great Lakes Dredge and Dock Company operates a cutter head suction dredge named "LW" that hydraulically removes Lake Decatur accumulated sediment. The dredge produces a slurry of 10 to 15% sediment and 85 to 90% lake water that is pumped through a 24 inch diameter pipeline and pumping station system to the City's Sedimentation Basin located in Oakley Township east of Basin 5. In the basin, gravity causes the sediment to settle out of the lake water. Clean lake water is then returned from the storage basin to Lake Decatur by an unnamed creek.

The project will increase the lake's storage capacity by 30% or 52 days of additional water supply for our community. This is equivalent to the volume of over 60 Willis (formerly Sears) Tower skyscrapers located in downtown Chicago! Sediment traps will be created in Big Creek and Sand Creek to capture incoming sediment before it reaches the main body of the lake. A sediment trap was previously constructed in Basin 6. Below is a map outlining the areas to be dredged in black with average water depth increases after dredging is completed.



### **Schedule**

February 2014	Dredging contract approved by Decatur City Council
March 2014	Contractor begins rehabilitating the Oakley Sedimentation Basin
April 2014	Contractor begins dredging equipment mobilization and assembly
November 2014	Basin 1 dredging begins
2015	Big Creek dredging begins
2016	Sand Creek and Basin 2 dredging begins
2018	Basin 3 dredging begins
2019	Basins 4 and 6 dredging begins
December 2019	Project completion

### **Cost & Funding**

Design	\$ 1,132,478
Construction	\$ 89,504,536
Construction Administration	\$ 766,522
Miscellaneous Expenses	\$ 40,000
Total Cost	\$ 91,443,536



The project is funded by the sale of drinking water and raw Lake Decatur water by the City of Decatur and financed through 20 year term bond issuances. Additional funding is provided by the Archer Daniels Midland Company.

### **Project Partners**

Owner	City of Decatur, IL
Contractor	Great Lakes Dredge and Dock, Rivers & Lakes Division St. Peters, MO
Major Subcontractor	Terra Contracting Services, Kalamazoo, MI
Design Services & Construction Administration	Chastain & Associates, Decatur, IL
Geotechnical Services	SKS Engineers, Decatur, IL
Primary Regulatory Agencies	U.S. Army Corps of Engineers, Rock Island, IL Illinois Environmental Protection Agency, Springfield, IL

### **For More Project Information**

Contact the Water Management Department at (217) 424-2863.

### **For More Lake Decatur and Boating Safety During Dredging Information**

Contact the Lake Office at (217) 424-2837.

- Boaters are urged to exercise extreme caution on Lake Decatur.
- Dredge can be contacted on VHF-FM channel 13 and 16.
- Avoid all buoys, dredge equipment and please observe the warning signs on the lake.